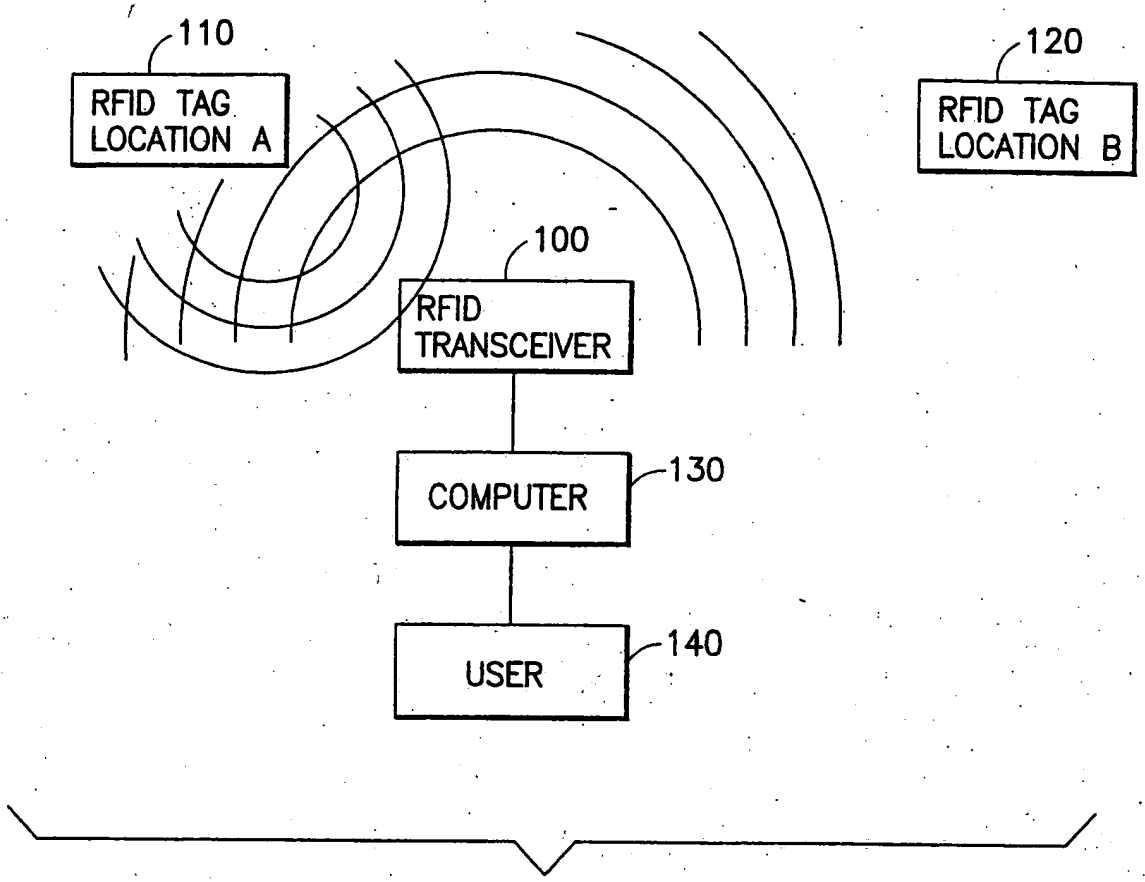
110
RFID TAG LOCATION A
120
RFID TAG LOCATION B
100
RFID TRANSCEIVER
COMPUTER
130
USER
140

FIG. 1

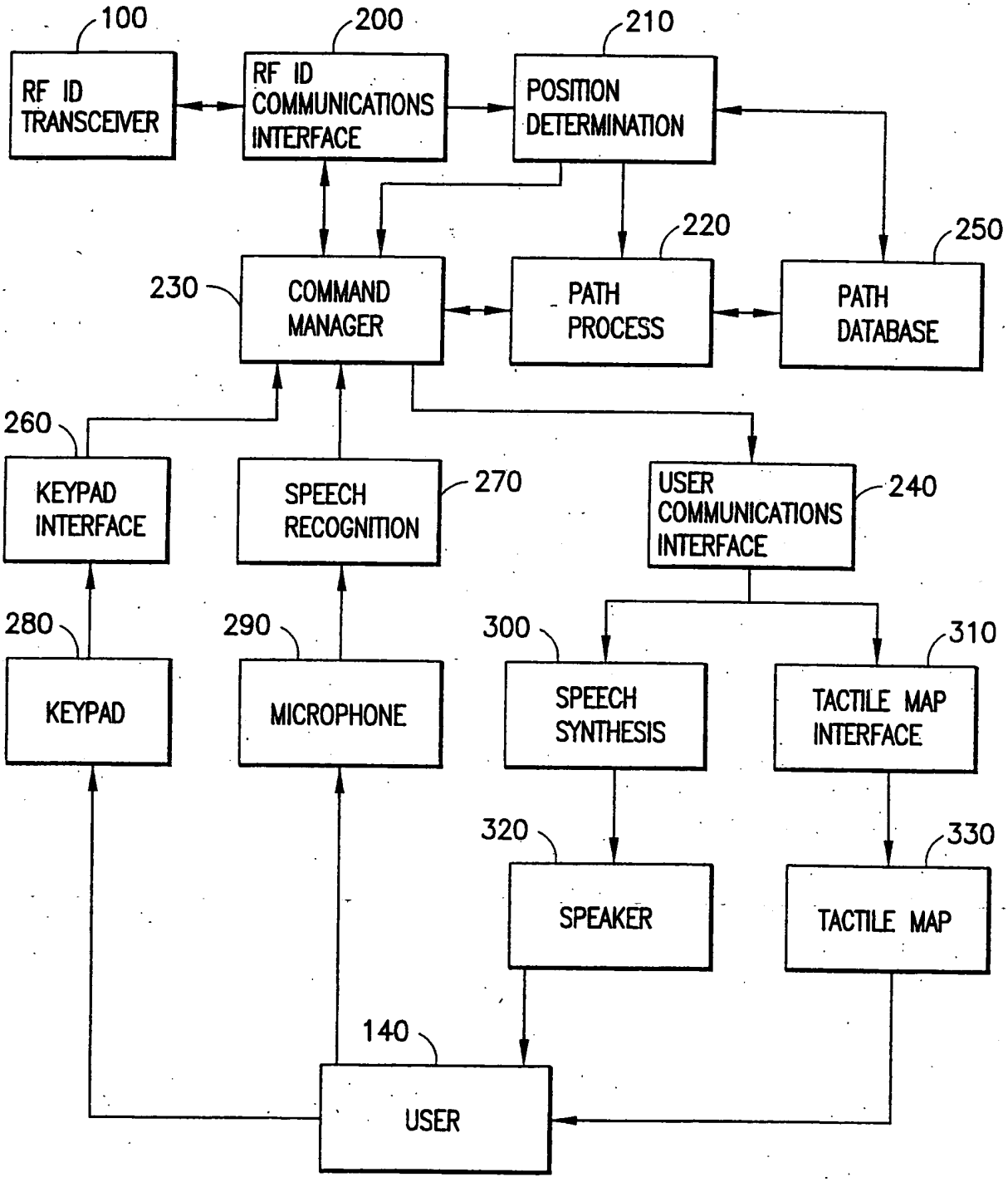
100
RF ID TRANSCEIVER
200
RF ID COMMUNICATIONS INTERFACE
210
POSITION DETERMINATION
220
250
230
COMMAND MANAGER
PATH PROCESS
PATH DATABASE
260
KEYPAD INTERFACE
SPEECH RECOGNITION
270
USER COMMUNICATIONS INTERFACE
240
280
290
300
310
KEYPAD
MICROPHONE
SPEECH SYNTHESIS
TACTILE MAP INTERFACE
320
330
SPEAKER
TACTILE MAP
140
USER

FIG.2

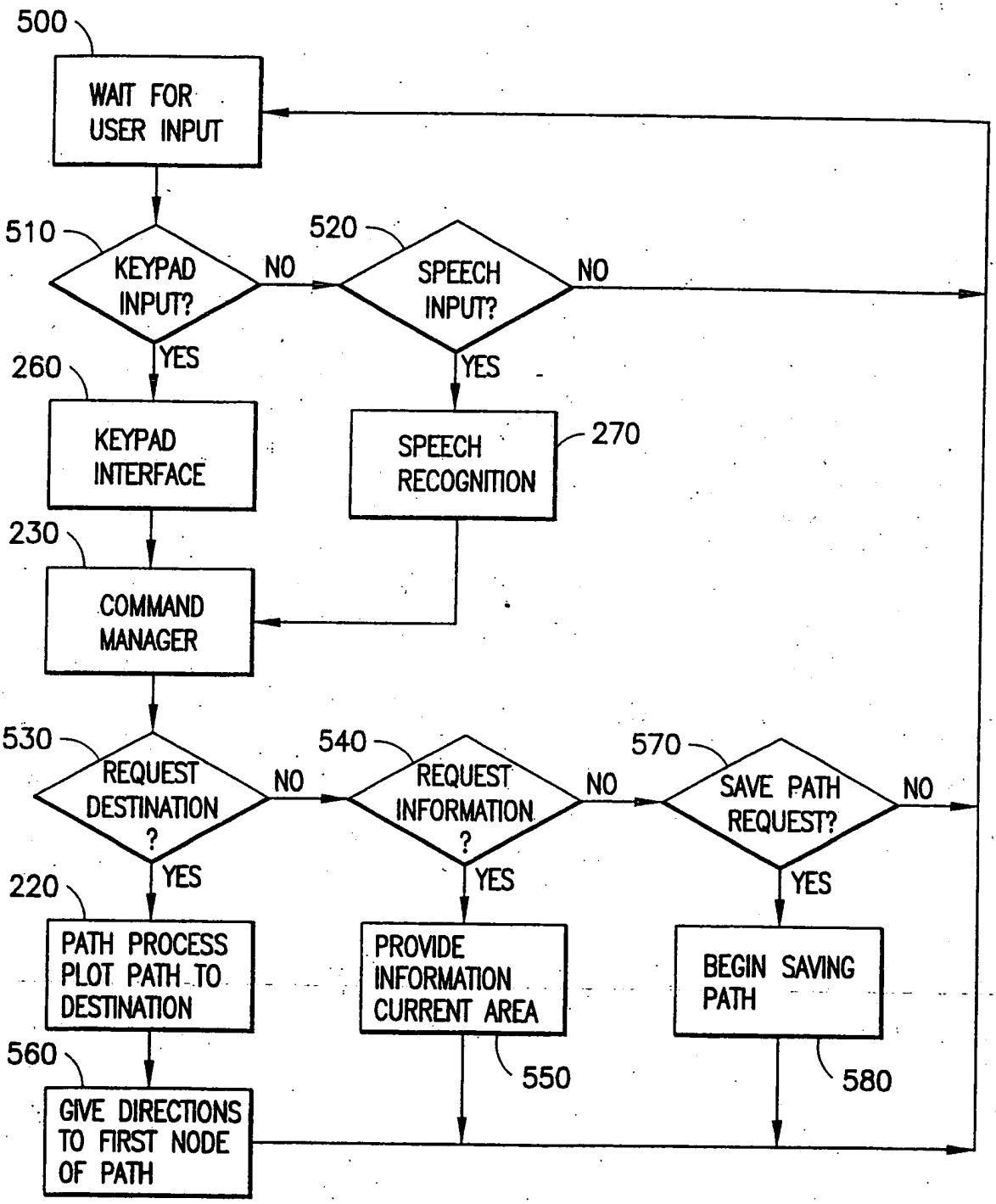
500
WAIT FOR USER INPUT
510
KEYPAD INPUT?
NO
520
SPEECH INPUT?
NO
YES
YES
260
KEYPAD INTERFACE
SPEECH RECOGNITION
270
230
COMMAND MANAGER
530
REQUEST DESTINATION ?
NO
540
REQUEST INFORMATION ?
NO
570
SAVE PATH REQUEST?
NO
YES
YES
YES
220
PATH PROCESS PLOT PATH TO DESTINATION
PROVIDE INFORMATION CURRENT AREA
BEGIN SAVING PATH
560
550
580
GIVE DIRECTIONS TO FIRST NODE OF PATH

FIG.3

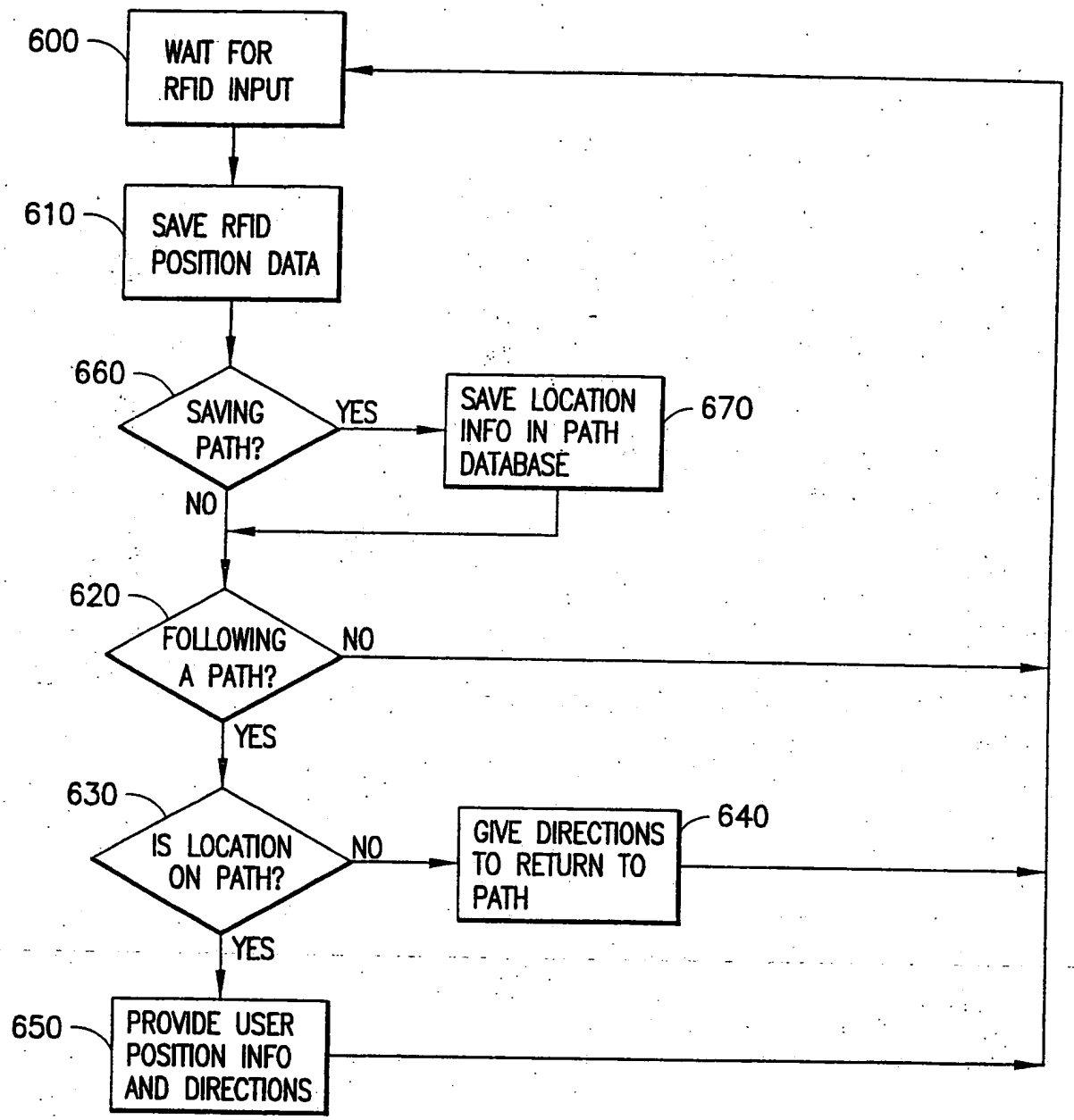
600
WAIT FOR RFID INPUT
610
SAVE RFID POSITION DATA
660
SAVING PATH?
YES
SAVE LOCATION INFO IN PATH DATABASE
670
NO
620
FOLLOWING A PATH?
NO
YES
630
IS LOCATION ON PATH?
NO
GIVE DIRECTIONS TO RETURN TO PATH
640
YES
650
PROVIDE USER POSITION INFO AND DIRECTIONS

FIG.4